

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	45	video adj transcoder and (reduc\$4 near resolution)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:31
L7	2	"5926573".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 07:24
L8	2	"6275536".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 07:52
L9	2	"6647061".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 07:53
L10	2	"6490627".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 07:55
L11	2	"6621979".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 07:56
L12	3	"2004205213".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 07:59
L13	2	"7088780".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:00

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L14	0	partially with ecoding with frame and video	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L15	75	partially with encoding with frame and video	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L16	6	(partially near encoding) with frame and video	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L17	0	partially with ecoding with reduced with resolution with frame and video	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L18	1	partially with encoding with reduced with resolution with frame and video	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L19	1	partially with encoding with reduced with resolution	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L20	3	partially with encoding same reduced with resolution	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L21	2	partially adj encoding and reduced adj resolution	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26

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L22	1	"10/046366"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L23	0	partially near2 encod\$3 with frame and video and trancod\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L24	19	partially adj encoding and video	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L25	2	"5940130".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L26	234	video adj transcoder	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L27	8	video adj transcoder and partial\$2 near encod\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L28	4	video adj transcoder and partial\$2 adj encod\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L29	2	"6389174".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26

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L30	58	video adj transcoder and dct and idct	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L31	8	("5940130" "6526099" "6625216" "6647061").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L32	6	(video adj transcod\$3) and (partial\$2 adj encod\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L33	425	video adj transcod\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L34	86	video adj transcod\$3 and dct and idct	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L35	9	"6671322"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L36	2	"6671322".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L37	18	video adj transcod\$3 and dct and idct and reduce with complexity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26

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L38	6	video adj transcod\$3 and partial\$2 adj encod\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L39	0	375/010	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L40	0	375/240.010	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L41	1535	375/240.03	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L42	866	375/240.2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L43	52	L33 and L41	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:26
L44	43	L33 and L42	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:31
L45	2	"6671322".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:30

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L46	2795	375/240	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:30
L47	6161	382/232	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:31
L48	31	L33 and L46	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:36
L49	28	L33 and L47	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:38
L50	65	(video adj transcod\$3) and (reduc\$4 near resolution)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:33
L51	0	40 and 46	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:32
L52	0	40 and 47	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:32
L53	2	((video adj transcod\$3) and (reduc\$4 near resolution)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:34

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L55	35	((motion adj compensation) and (reduc\$4 adj resolution)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:35
L56	10	((motion adj compensation) with (reduc\$4 adj resolution)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:35
L57	1	((motion adj compensation) with (reduc\$4 adj resolution) and (partial\$2 adj encod\$3)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:35
L58	1	((motion adj compensation) and (reduc\$4 adj resolution) and (partial\$2 adj encod\$3)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:35
L59	1	((motion adj compensat\$3) and (reduc\$4 adj resolution) and (partial\$2 adj encod\$3)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 08:36



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- ☐ 1. **Submacroblock motion compensation for fast down-scale transcoding of compressed video**
 Bo Shen;
[Circuits and Systems for Video Technology, IEEE Transactions on](#)
 Volume 15, Issue 10, Oct. 2005 Page(s):1291 - 1302
 Digital Object Identifier 10.1109/TCSVT.2005.854216
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- ☐ 2. **Heterogeneous video transcoding to lower spatio-temporal resolutions and different encoding formats**
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[Multimedia, IEEE Transactions on](#)
 Volume 2, Issue 2, June 2000 Page(s):101 - 110
 Digital Object Identifier 10.1109/6046.845014
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- ☐ 3. **Arbitrary downsizing video transcoding using fast motion vector reestimation**
 YongQing Liang; Lap-Pui Chau; Yap-Peng Tan;
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- ☐ 4. **Complexity-quality analysis of transcoding architectures for reduced spatial resolution**
 Vetro, A.; Hata, T.; Kuwahara, N.; Kalva, H.; Sekiguchi, S.;
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 Volume 48, Issue 3, Aug. 2002 Page(s):515 - 521
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- ☐ 5. **An efficient arbitrary downsizing algorithm for video transcoding**
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6. **Motion drift modeling and correction for downscale video transcoding**
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7. **An adaptive non-linear motion vector resampling algorithm for down-scaling video transcoding**
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10. **Video transcoding by reducing spatial resolution**
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12. **Video transcoding: an overview of various techniques and research issues**
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13. **Video transcoding architectures and techniques: an overview**
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16. **Transcoding of video into different encoding formats**
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17. **MPEG-2 to WMV Transcoder with Adaptive Error Compensation and Dynamic Swi**
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Volume PP, Issue 99, 2006 Page(s):1 - 1
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18. **A Fast Arbitrary Factor Video Re-Sizing Algorithm**
Patil V. ; Kumar R. ; Mukherjee J. ;
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19. **An Efficient Motion Vector Composition Scheme for Arbitrary Frame Down-Sampli**
Video Transcoder
Kumar R. ; Patil V. ;
[IEEE Transactions on Circuits and Systems for Video Technology : Accepted for future](#)
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Video transcoder with spatial resolution reduction

Publication number: EP1257127

Publication date: 2002-11-13

Inventor: VETRO ANTHONY (US); SUN HUIFANG (US); YIN PENG (US); LIU BEDE (US); POON TOMMY C (US)

Applicant: MITSUBISHI ELECTRIC CORP (JP)

Classification:

- international: H04N7/30; G06T3/40; G06T9/00; H03M7/30; H03M7/36; H04N7/26; H04N7/32; H04N7/30; G06T3/40; G06T9/00; H03M7/30; H03M7/36; H04N7/26; H04N7/32; (IPC1-7): H04N7/26

- european: H04N7/26Z4; G06T3/40T; H04N7/26T

Application number: EP20020010348 20020507

Priority number(s): US20010853394 20010511

Also published as:

US6671322 (B2)
US2003016751 (A1)
US2002181579 (A1)
JP2003032682 (A)
EP1257127 (A3)

Cited documents:

US5926573
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Abstract of EP1257127

A method transcodes groups of macroblocks of a partially decoded input bitstream. The groups of macroblocks include intra-mode and inter-mode macroblocks. Each macroblock includes DCT coefficients, and at least one motion vector. The modes of each group of macroblocks are mapped to be identical only if there is an inter-mode block and an intra-mode macroblock in the group. If any of the macroblocks in the group are mapped, then the DCT coefficients and the motion vector for such mapped macroblocks are modified in accordance with the mapping to generate reduced-resolution macroblock for an output compressed bitstream to compensate for drift..

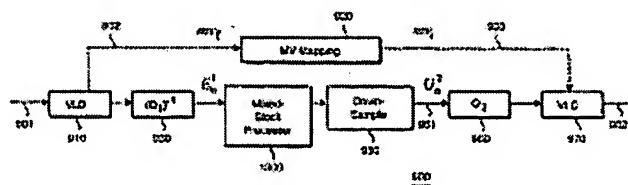


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Inventor: VETRO ANTHONY (US); SUN HUIFANG (US); Applicant: MITSUBISHI ELECTRIC CORP (JP)
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EC: H04N7/26Z4; G06T3/40T; (+1)

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IEEE STD IEEE Standard

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and the MPEG-4 **video transcoder**. With optimizations, the total time spent by ... one-half or one-fourth of the **spatial resolution** of the input MPEG-2 video. ...
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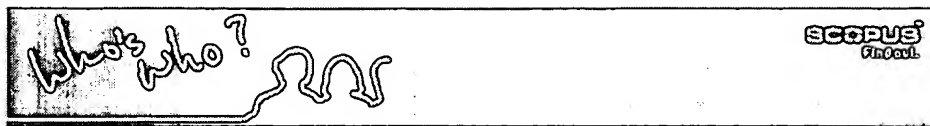
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PATENT COOPERATION TREATY APPLICATION, Dec 1999

...control the final quality. The first parameter is the **spatial resolution** of the MPEG encoded picture. The second parameter is the...how to obtain the best performance with respect to the **spatial resolution** and the temporal refresh rate. Audio visual information...

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PAZ, Ofir / KEREN, Avishai / FEDER, Meir / FENSTER, Maier, PATENT

COOPERATION TREATY APPLICATION, Feb 2000

...for a particular viewer. Preferably, the quality of the TV channel is reduced for this display, for example by reducing **spatial resolution** thereof or by using an increased compression ratio. Thus, a plurality of personalized enhanced stations can be provided...

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 Providing a plurality of display commands which represent display (104). Generating a plurality of quantized transformed coefficients (106) from display command, wherein quantization is different for different display commands. Creating a compressed video ...
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CHRISTOPOULOS, Charilaos / SKODRAS, Athanasios, PATENT COOPERATION TREATY APPLICATION, Sep 1998
 ...to implement a **spatial resolution** reduction of the...decreasing the **spatial resolution** of the incoming...provides lower **spatial resolution** reconstructed...general view of a **video transcoder**. - Fig. 5 is an...
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KALRA, Devendra / KRISHNAMOHAN, Karnamadakala / RAMAMOORTHY, Venkatasubbarao / BALAKRISHNAN, Jeyendran / BURR, Timothy J. / GURUSWAMY, Kowsik, PATENT COOPERATION TREATY APPLICATION, Aug 1998
 ...level of detail function according to the present invention FIG. 28 illustrates 3D decoder controlling video sequences and **spatial resolution** in dependence upon distance from the camera according to the present invention. ### DETAILED DESCRIPTION OF THE PREFERRED...
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 The present invention provides an apparatus and method for encoding, storing, transmitting and decoding multimedia information in the form of scalable, streamed digital data. A base stream containing basic informational content and subsequent streams ...
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 A video teleconferencing system uses digital transcoding to obtain algorithm transcoding, transmission rate matching, and spatial mixing. The video teleconferencing system comprises a multipoint control unit (MCU) for allowing multiple audiovisual ...
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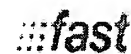
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 A video teleconferencing system uses digital transcoding to obtain algorithm transcoding, transmission rate matching, and spatial mixing. The video teleconferencing system comprises a multipoint control unit (MCU) for allowing multiple audiovisual ...
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...focus upon methods used to reduce the **spatial resolution** of the video sequence. We
also discuss...complexity improved 39% (over a basic **video transcoder**) with the rate
reduction methods...principles of motion vector reuse and **spatial resolution** reduction
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